



INSTALLATION INSTRUCTIONS

ATWI, AT312, ATWI-A: ATWI-OS, ATWI-QS- STOMP GRATE

CAREFULLY READ ALL INSTRUCTIONS BEFORE STARTING THIS INSTALLATION.

KIT INCLUDES: (1)STOMP GRATE,(1)I PEDAL, (2) PUSH RODS, (2) SPRINGS , (1) GUIDE BAR.

POSITION BOAT TO ACCESS ROCK GRATE, BLOCK UP, BACK OFF TRAILER. ETC,

REMOVE ALL 4 SCREWS AND REMOVE THE FACTORY ROCK GRATE. INSTALL THE NEW STOMP GRATE WITH THE SUPPLIED SCREWS USING RTV SILICONE OR AN EQUIVELANT PRODUCT. APPLY A THIN LAYER OF RTV SILICONE OR AN EQUIVELANT PRODUCT TO THE MATCHING SURFACES AND SCREWS BEFORE INSTALLATION. **ON BOATS USING AN ATWI STYLE INTAKE IT WILL BE NECESSARY TO PLUG THE ORIGINAL FORWARD MOUNTING HOLES WITH THE SUPPLIED SET SCREWS USING RTV SILICONE OR AN EQUIVELANT PRODUCT. ONCE THE HOLES ARE PLUGED IT WILL BE NECESSARY TO HOLD THE STOMP GRATE IN THE INTAKE HOLE AND MARK WHERE THE TWO NEW FRONT HOLES WILL BE LOCATED. ONCE THE HOLES ARE MARKED USEING A LETTER F DRILL BIT DRILL TWO NEW HOLES(DRILL BIT SUPPLIED WITH RETAIL KIT ONLY). USE A 5/16-18 TAP AND TAP THREADS INTO THE HOLES (TAP SUPPLIED WITH RETAIL KIT ONLY). USE THE ADDITIONAL 5/16 CAP SCREWS TO HOLD THE GRATE IN USING RTV SILICONE OR AN EQUIVILANT PRODUCT ON THE BOLTS.**

LOCATE THE GUIDE BAR BY CENTERING IT ON THE SWIM PLATFORM. FOR CLEARANCE BE SURE SET THE HOLES BACK FROM THE TRANSOM, BE CAREFUL NOT EXCED THE RANGE OF THE ROLLER BUSHINGS LOCATED IN THE GUIDE BAR. DRILL TWO 5/16" HOLES FOR THE GUIDE BAR MOUNTING BOLTS. AT THIS TIME MARK AND DRILL TWO 7/8" HOLES FOR THE PUSH RODS.

TO GAIN CLEARANCE FOR THE CLEANOUT ON ALL AMERICAN TURBINE PUMPS IT WILL BE NECESSARY TO CUT THE GUIDE BAR INTO TWO PIECES AFTER LOCATING THE GUIDE BAR POSITION ON THE SWIM PLATFORM. THERE ARE TWO FELT TIP MARKS ON THE TOP OF THE GUIDE BAR INDICATING WHERE YOU NEED TO MAKE YOUR CUTS. AFTER YOU HAVE CUT THE GUIDE BAR INTO TWO PIECE , DRESS THE EDGES SO THAT ALL SHARP EDEGES ARE ELEMENATED. NEXT LOCATE THE CENTER PUNCH POINTS CLOSEST TO THE CUT YOU MADE ON EACH OF THE TWO PIECES AND DRILL A 5/16" HOLE IN EACH POSITION TO ACCOMIDATE THE SECOND SET OF GUIDE BAR MOUNTING BOLTS(SUPPLIED WITH THE KIT). THESE ADDITIONAL BOLTS WILL STABALIZE THE PIECES, AND INSURE THAT THE ORIGINAL GEOMETRY IS NOT LOST.

WITH THE GRATE IN THE UP POSITION, PLACE THE PUSH RODS UP INTO HOLE IN THE GUIDE BAR, AND THROUGH THE HOLES IN THE SWIM PLATFORM. PLACE THE BOTTOM END OF THE PUSH RODS INTO THE RIDE PLATE ARMS FROM OUTSIDE. PLACE THE 1/2" SS SAE WASHERS OVER THE ENDS OF THE RODS. FEED THE TAIL END INTO THE HOLE TO CAPTURE THE SPRING. AT THIS TIME CHECK THE STROKE IT SHOULD BE 5 TO 6" WITH THE PEDAL IN PLACE. IF NECESSARY TRIM THE PUSH RODS EVENLY TO ACHIEVE THE DESIRED STROKE.

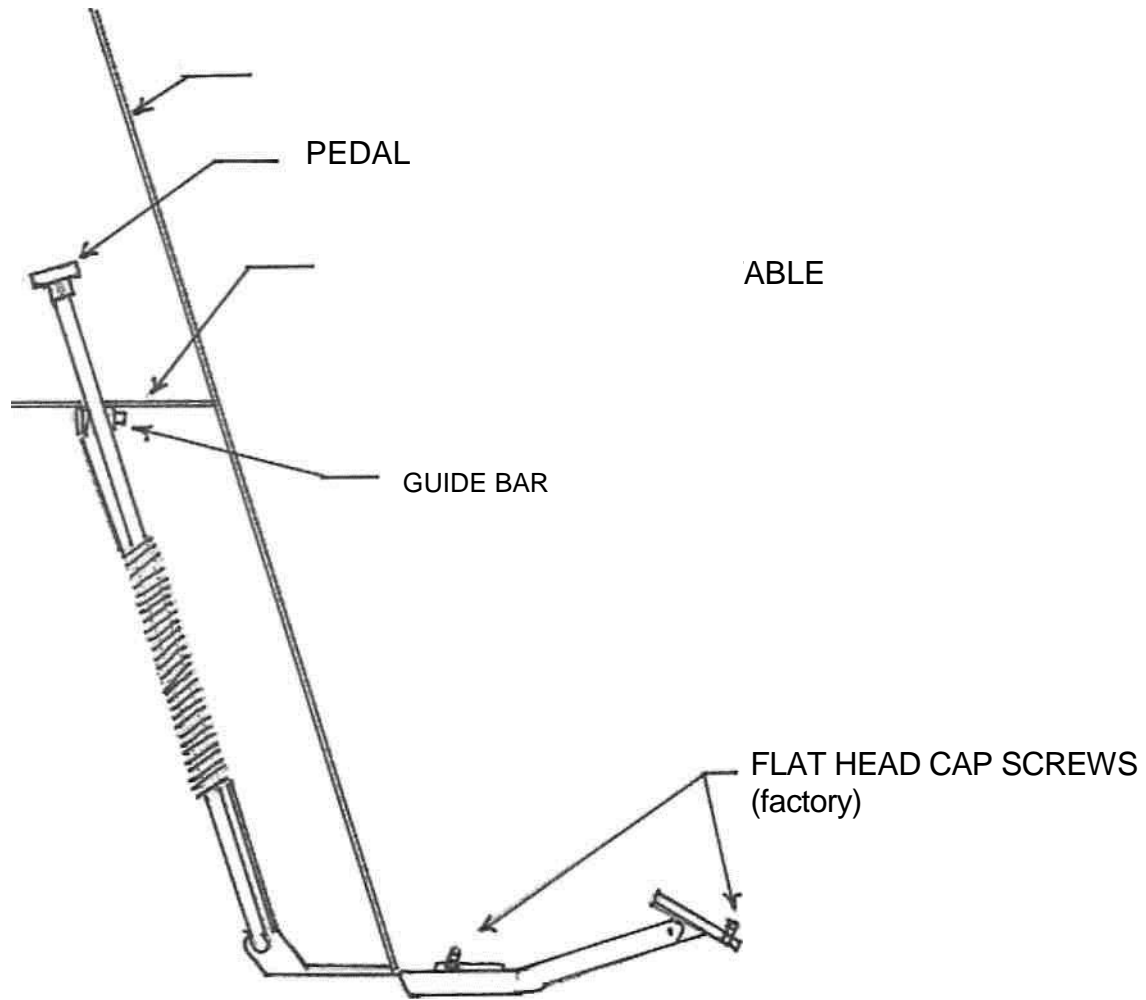
PLACE THE LOOPED END OF THE SPRING OVER THF CARRIAGE BOLT ON GUIDE BAR AND TIGHTEN. AT THE BOTTOM PRELOAD THE SPRINGS 1" ON BOTH SIDES, CUT AND WRAP THE SPRING AROUND THE PUSH ROD AS A KEEPER.

PLACE THE PEDAL ON THE PUSH RODS. USE RTV SILICONE OR AN EQUIVALENT PRODUCT ON SETSCREWS, BEGINNING WITH THE LOWER SET SCREWS FIRST.

All welds and joints need be checked annually for cracks caused by vibration and harmonics to avoid impeller damage

REMINDER: SAFETY IS IMPORTANT WHEN WORKING UNDER AND AROUND A BOAT

PPI-ATWI American Turbine



PATENT APPLIED FOR.